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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/829,110	04/09/2001	Bentley J. Palmer	56.0550	9801	
27452 7	7590 03/24/2004	03/24/2004		EXAMINER	
SCHLUMBERGER TECHNOLOGY CORPORATION IP DEPT., WELL STIMULATION 110 SCHLUMBERGER DRIVE, MDI			TUCKER, PHILIP C		
			ART UNIT	PAPER NUMBER	
SUGAR LANI	D, TX 77478		1712		
			DATE MAILED: 03/24/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Antibus Communication	09/829,110	PALMER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Philip C Tucker	1712				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ☐ This	Pa) This action is FINAL . 2b) ⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x <i>parte Quayle</i> , 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims		•				
4)⊠ Claim(s) <u>1-46</u> is/are pending in the application.						
4a) Of the above claim(s) <u>40-42 and 46</u> is/are withdrawn from consideration.						
5) Claim(s) <u>43-45</u> is/are allowed.						
6)⊠ Claim(s) <u>1-7,10-36 and 39</u> is/are rejected.						
7) Claim(s) 8,9,37 and 38 is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner	•					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign part a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau	have been received. have been received in Application ty documents have been receive	on No				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5)	tent Application (PTO-152)				

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DETAILED ACTION

Election/Restriction

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-39 and 43-45, drawn to a method of removing scale in a wellbore, classified in class 166, subclass 312.
- II. Claims 40-42, drawn to drawn to an encapsulated composition, classified in class 507, subclass 103.
- III. Claim 46, drawn to a method of dissolving sludge, classified in class 208, subclass 48 R.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions II and I or III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the process may be performed with a product which is not encapsulated, or the product may be used in other processes such as formation acidizing, where no scale or sludge removal is necessary.
- 3. Inventions I and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In

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the instant case the different inventions I and III have different effects of scale removal and sludge removal.

- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 5. During a telephone conversation with Thomas Mitchell on 3/16/04 a provisional election was made without traverse to prosecute the invention of I, claims 1-39 and 43-45. Affirmation of this election must be made by applicant in replying to this Office action. Claims 40-42 and 46 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.
- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

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only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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8. Claims 1-7, 10-36 and 39 are rejected under 35 U.S.C. 102(e) as being anticipated by Fu et al (6350721 B1)

The applied reference has a common inventor with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Fu teaches an ionic fluid which may be used to remove scale from wellbores, and which may contain reducing agents such as EDTA, or a strong acid such as HF (column 14, line 56 – column 15, line 9). The precursors of the ionic liquid may be injected in to the wellbore to generate the ionic liquid (see column 7, lines 14-18). Column 11, including Table 2, column 10, lines 61-67 and the claims generally teach the same anions and cations of the present invention.

- 9. Claims 8, 9, 37 and 38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 10. Claims 43-45 are allowable over the art of record.

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11. The following is a statement of reasons for the indication of allowable subject matter: The prior art fails to teach or suggest the use of the encapsulated ionic liquid or precursors in the removal of scale as taught in claims 43 and 44. The prior art also fails to teach the use of ionic liquids to remove barium sulfate scales as taught in claim 45. The objected to claims 8, 9, 37 and 38 are distinguished, since Fu teaches tetraalkyl ammonium compounds, but not the trialkyl quaternary compounds disclosed therein.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip C Tucker whose telephone number is 571-272-1095. The examiner can normally be reached on Monday - Friday, Flexible schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Philip C Tucker Primary Examiner Art Unit 1712

PCT-2971